ABSTRACT

A method and apparatus for ensuring end-to-end QoS for user applications operating in

5   multi-transport protocol environments while using PVC or SVC connection management

procedures.   A user application at a workstation having specific QoS requirements can

selectively connect to one of a plurality of servers having varying QoS profiles, regardless of the

transport protocols used in the underlying network. The user application initiates a session with

a first QoS negotiator and a first QoS selector. The first QoS negotiator queries a second QoS

10   negotiator for the QoS profile of a connected server. The second QoS negotiator, in conjunction

with a second QoS selector, notifies the server of the address of the second QoS negotiator. The

second QoS negotiator, in conjunction with the second QoS selector, sends a response to the first

QoS negotiator and the first QoS selector indicating QoS profile and connection information of

the server. The first QoS selector stores the received QoS profile and connection information in

15   a database. The database is then queried by the user application to determine if a server having

the desired QoS profile exists. If such a server does not exist, the QoS selection and negotation

procedures are repeated and the database is updated. If a server having the desired QoS profile

does exist, a PVC or SVC connection is established between the first and second QoS negotiators

and QoS selectors, thereby ensuring end-to-end QoS for the user application and allowing the

20   application to exchange data with the server using the PVC or SVC connection.

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